



# Standards *Actions*

## Projects Initiated

The following DOE technical standards projects were recently initiated. If you are interested in participating in the development of these standards, please contact the persons listed below.

- *Nuclear Explosive Safety Study Process*, Project No. SAFT-0051; Dana K. Krupa, DP-21; 202-586-3842.
- *Preparation Guide for the U.S. Department of Energy Hazard Analysis Reports for Nuclear Explosive Operations*, Project No. SAFT-0052; Dana K. Krupa, DP-21; 202-586-3842.
- *Personnel Assurance Program*, Project No. SAFT-0053; Dana K. Krupa, DP-21; 202-586-3842.
- *Radiological Training for Tritium Facilities*, Project No. 6910-0054; Peter O'Connell, EH-52; 301-903-5641.
- *Radiological Training for Accelerator Facilities*, Project No. 6910-0055; Peter O'Connell, EH-52; 301-903-5641.
- *Worker Protection in Plutonium Facilities*, Project No. SAFT-0055; Peter O'Connell, EH-52; 301-903-5641.
- *Guide to Good Practices for Lockouts and Tagouts* (revision to DOE-STD-1030-92), Project No. SAFT-0056; Harish Chander, EH-31; 301-903-6681.

## Documents Recently Published

The following DOE documents have recently been published:

- DOE-HDBK-1084-95, *Primer on Lead-Acid Storage Batteries*, September 1995.
- DOE-HDBK-1099-96, *Establishing Nuclear Facility Drill Programs*, March 1996.
- DOE-HDBK-1101-96, *Process Safety Management for Highly Hazardous Chemicals*, February 1996.
- DOE-STD-1021-93 Change Notice No. 1, *Natural Phenomena Hazards Performance Categorization Guidelines for Structures, Systems, and Components*, January 1996.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

### Technical Standards Program Document Status as of 4/30/96

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
23	58	20	4

**Total in process = 78**

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at OSTI to place *all* DOE technical standards (i.e., standards and

handbooks) on the Internet. To date, 68 DOE technical standards have been placed on the Internet at the following address:

**<http://apollo.osti.gov/html/techstds/techstds.html>**

The following DOE technical standards have recently been placed on the Internet:

- DOE-STD-1012-92, *Guide to Good Practices for On-the-Job Training*, July 1992.
- DOE-HDBK-1012/1-92, *Fundamentals Handbook, Thermodynamics, Heat Transfer, and Fluid Flow, Volume 1*, June 1992.
- DOE-HDBK-1012/3-92, *Fundamentals Handbook, Thermodynamics, Heat Transfer, and Fluid Flow, Volume 3*, June 1992.

**Errata:** Volumes 1 and 2 of the *Fundamentals Handbook, Mathematics*, were listed in the March 1996 edition of *The Standards Forum* (Standards Actions section) as new additions to the DOE Technical Standards Program Home Page. The document numbers for these handbooks were incorrectly listed. The correct numbers are DOE-HDBK-1014/1-92, and DOE-HDBK-1014/2-92, respectively.

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group membership, call Bethany Marks at 212-642-4948. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments.

#### The following American National Standards are currently in coordination:

- ANS 4.5, *Accident Monitoring Instrumentation for Nuclear Power Plants* [revision of ANSI/ANS 4.5-1980 (R1986)]; comments due June 25, 1996.
- ANS 8.1, *Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors* [revision of ANSI/ANS 8.1-1983 (R1988)]; comments due June 25, 1996.
- ASTM A0288, *Specification for Carbon and Alloy Steel Forgings for Magnetic Retaining Rings for Turbine Generators* (new standard); comments due June 25, 1996.
- ASTM D4276, *Practice for Confined Area Entry* (new standard); comments due June 11, 1996.
- ASTM D5516, *Test Methods for Evaluating the Mechanical Properties of Fire-Retardant Treated Softwood Plywood Exposed to Elevated Temperatures* (new standard); comments due June 11, 1996.
- ASTM D5631, *Practice for Handling, Transportation, and Storage of Halon 1301 Bromotrifluoromethane (CF3BR)* (new standard); comments due June 11, 1996.
- ASTM E0020, *Specification for General Requirements for Steel Plates for Pressure Vessels* (new standard); comments due June 25, 1996.
- ASTM E0833, *Terminology of Building Ergonomics* (new standard); comments due May 28, 1996.

- ASTM E1186, *Practice for Air Leakage Site Detection in Building Envelopes* (new standard); comments due May 28, 1996.
- ASTM E1368, *Practice for Visual Inspection of Asbestos Abatement Projects* (new standard); comments due May 28, 1996.
- IEEE 1262-1995, *Recommended Practice for Qualifications of Photovoltaic (PV) Modules* (new standard); comments due May 28, 1996.
- UL 393, *Standard for Safety for Indicating Pressure Gauges for Fire-Protection Services* (revision of ANSI/UL 393-1991); comments due June 25, 1996.
- UL 790, *Standard for Safety for Tests for Fire Resistance of Roof Covering Materials* (revision of ANSI/UL 790-1991); comments due June 25, 1996.

#### The following newly published American National Standards are available from ANSI:

- ANSI/API 2015-1994, *Safe Entry and Cleaning of Petroleum Storage Tanks: Planning and Managing Tank Entry from Decommissioning Through Recommissioning*.
- ANSI/ASME B30.6-1995, *Derricks* (includes revision service).
- ANSI Z21.40.4-1994, *Performance Testing and Rating of Gas-Fired, Air Conditioning and Heat Pump Appliances*.

#### The following international standards are currently in coordination (comment due dates follow each entry) :

- ISO/DIS 3977-11, *Gas turbines - Procurement - Part 11: Reliability, availability, maintainability and safety* - June 14, 1996.
- ISO/DIS 4224, *Ambient air - Determination of carbon monoxide - Non-dispersive infrared spectrometric method* - June 7, 1996.
- ISO/DIS 9000-2, *Quality management and quality assurance standards - Part 2: Generic guidelines for the application of ISO 9001, ISO 9002 and ISO 9003* (revision of ISO 9000-2: 1993) - June 7, 1996.
- ISO/DIS 9241-15, *Ergonomic requirements for office work with visual display terminals (VDTs) - Parts 15: Command dialogues* - July 3, 1996.
- ISO/DIS 10014, *Guidelines for managing the economics of quality* - July 3, 1996.
- prEN 677, *Gas-fired central heating boilers - Specific requirements for condensing boilers with a nominal heat input not exceeding 70 kW* (for information).
- prEN 1160, *Installations and equipment for liquefied natural gas - General characteristics of liquefied natural gas* (for information).

- prEN 1822-5, *High efficiency particulate air filters (HEPA and ULPA) - Part 5: Testing the efficiency of the filter element* - August 7, 1996.

**The following newly published international standards are available from ANSI:**

- IEC 1244-2: 1996, *Determination of long-term radiation ageing in polymers - Part 2: Procedures for predicting ageing at low dose rates.*
- IEC 1343: 1996, *Nuclear reactor instrumentation - Boiling light water reactors (BWR) - Measurements in the reactor vessel for monitoring adequate cooling within the core.*
- IEC 1500: 1993, *Nuclear power plants - Instrumentation and control systems important to safety - Functional requirements for multiplexed data transmission.*
- ISO 333: 1996, *Coal - Determination of nitrogen - Semi-micro Kjeldahl method.*
- ISO 609: 1996, *Solid mineral fuels - Determination of carbon and hydrogen - High temperature combustion method.*
- ISO 3183-2: 1996, *Petroleum and natural gas industries - Steel pipe for pipelines - Technical delivery conditions - Part 2: Pipes of requirements class B.*
- ISO 10156: 1996, *Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets.*
- ISO 12127: 1996, *Clothing for protection against heat and flame - Determination of contact heat transmission through protective clothing or constituent materials.*

**American Society for Testing and Materials**

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9692. ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9743 (FAX 610-832-9666). ASTM is developing a World Wide Web home page. The current version can be visited at <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

**The following ASTM standards are currently in**

**coordination:** (the due date for all items is May 10, 1996).

- New Standard, *Test Method for Mercury Sampling and Measurement in Natural Gas* (Ref. Z5751Z).
- New Standard, *Guide for Planning, Writing, and Reviewing Hydrologic and Geologic Reports* (Ref. Z3768Z).
- New Standard, *Test Method for Torsional Ring Shear Test to Determine Drained Residual Shear Strength of Cohesive Soils* (Ref. Z5168Z).
- New Standard, *Guide for Environmental Site Characterization in Cold Regions* (Ref. Z5320Z).
- New Standard, *Specification for Fire Resistive Joint Systems* (Ref. Z5859Z).
- New Standard, *Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (Ref. Z5282Z).
- New Standard, *Practice for Body Measurements and Sizing of Fire and Rescue Service Uniforms and Other Thermal Hazard Protective Clothing* (Ref. Z5196Z).
- E 583-87, *Practice for Systematizing the Development of (ASTM) Voluntary Consensus Standards for the Solution of Nuclear and Other Complex Problems* (revised standard).

**The following newly published standards are available from ASTM:**

- C 1315-95, *Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete* (new standard).
- D 5783-95, *Guide for Use of Direct Rotary Drilling with Water-Based Drilling Fluid for Geoenvironmental Exploration and Installation of Subsurface Water-Quality Monitoring Devices* (new standard).
- D 5834-95, *Guide for Source Reduction, Reuse, Recycling and Disposal of Solid and Corrugated Fiberboard (Cardboard)* (new standard).
- E 1021-95, *Test Methods for Measuring the Spectral Response of Photovoltaic Cells* (revised standard).
- E 1168-95, *Guide for Radiological Protection Training for Nuclear Facility Workers* (revised standard).

**American National Standards Projects Initiated**

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPQ for information on participating in NGS activities.

### American Nuclear Society

**Office:** 555 North Kensington Ave.  
La Grange Park, IL 60526-5592

**Contact:** Marilyn D. Weber

- ANS 41.6, *Performance Tests to Evaluate Solid Waste Forms for Low-Level Radioactive and Mixed Waste* (new standard).
- ANS 41.7, *Performance Tests to Evaluate Waste Forms and Emissions from the Thermal Treatment of Low-Level Radioactive and Mixed Waste* (new standard).

### American Society of Heating, Refrigerating and Air Conditioning Engineers

**Office:** 1791 Tullie Circle, NE  
Atlanta, GA 30329-5478

**Contact:** Jim Heldenbrand

- ASHRAE 166P, *Heating, Ventilating, Air-Conditioning and Refrigerating Terminology* (new standard).

### Institute of Electrical and Electronics Engineers

**Office:** 445 Hoes Lane  
Piscataway, NJ 08855-1331

**Contact:** Kathy Doty

- BSR/IEEE 802-1q, *Information Technology - Telecommunications and Information Exchange between Systems - Local Area Networks - Supplement to Part 1D: Media*

*Access Control (MAC) Bridges: Support for IEEE 802.12* (new standard).

**Contact:** Luigi Napoli

- BSR/IEEE 1461, *Recommended Practice for Power Electronics Module Interface* (new standard).
- BSR/IEEE C57.136, *Guide for Evaluation of Losses in Distribution Transformers* (new standard).

### Underwriters Laboratories, Inc.

**Office:** 12 Laboratory Drive  
Research Triangle Park, NC 27709-3995

**Contact:** Deborah Prince

- UL 733, *Standard for Safety for Oil-Fired Air Heaters and Direct-Fired Heaters* (new standard).

## Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856. Questions or comments may also be referred to Don Spellman, 423-574-7891, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065. The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886.



## Standards *Actions*

United States Department of Energy

Office of Scientific and Technical Information

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